

# DRAFT EMS FACT SHEET NO. 3



## LBNL Environmental Management Program (EMP) Summary for 2006

In 2006, 9 Environmental Management Programs (EMP) were developed that outlined strategies for improving environmental performance. The accomplishments of each EMP are summarized in the table below:

EMP	Type	Objective	Accomplishment(s)	Status
Fleet Petroleum Use	Control	Maintain vehicle fleet petroleum use below 20% of FY99 levels	Tracked fuel usage and implemented reduction strategies including replacing light trucks with sedans, replacing high-mileage vehicles with alternate fuel vehicles (AFV), and acquiring AFV or fuel-efficient vehicles. 2006 petroleum fuel use for 35% of 1999.	Ongoing (multi-year)
Diesel Particulate Matter (DPM)	Improvement	Reduce DPM emissions 5% per year	Calculated DPM emissions from mobile and stationary sources using calendar year 2005 as a baseline year. DPM emissions were reduced by streamlining maintenance to ~53% for stationary and ~25% for mobile sources.	Ongoing (multi-year)
Electricity Use	Improvement	Reduce electricity use site-wide	Implement measures to conserve electricity, include an awareness program and adjustment of lighting, HVAC units, and chillers. Reduced electricity use ~ 1.7%.	Completed
Natural Gas Use	Improvement	Reduce natural gas use site-wide	Implemented measures to conserve natural gas by reducing hot water temperatures, lowering indoor heating temperatures, optimizing thermostat controls and boiler combustion efficiencies. Reduced natural gas use ~15.6%.	Completed
Seal HVAC Ducts	Improvement	Reduce electrical and natural gas use at buildings 50A and 70.	Using a process developed by one of LBNL's research divisions, sealed HVAC ducts at buildings 50A and 70.	Completed
Green Purchasing	Improvement	Increase procurement of Energy Star Products (ESP) and Recycled Content Products (RCP)	Developed green purchasing policies and Energy Star Products and procedures to increase purchases of RCP. RCP Recycled Content Products procurements improved from ~25% in FY 2005 to (RCP) ~52% in FY 2006.	Ongoing (multi-year)
Dolphin System	Improvement	Reduce water and chemical use in cooling tower at building 37	Installed a nonchemical (Dolphin) water treatment system at the building 37 cooling tower. Reduced chemical use by ~\$7,000 per year.	Completed
Building Retro-Commissioning	Study	Conduct a study to reduce electrical and natural gas use at building 6	Conducted a retro-commissioning study to identify projects for reducing electrical and natural gas use at Building 6.	Completed
Commute Traffic	Study	Conduct a study to reduce Laboratory commute traffic	Conducted a ridership survey to identify potential areas of improvement in the Laboratory bus system and use of mass transit.	Completed